INTERNATIONAL SEARCH REPORT

International application No.

			PCT/JP2004/012508	
Int.Cl	CATION OF SUBJECT MATTER 7 C12N9/04, C12N15/53, C12N5/1 C12Q1/32, C12M1/40, G01N33/6	56		C12N1/21,
According to In	ternational Patent Classification (IPC) or to both nation	al classification and IPC		
B. FIELDS SI				
Int.CI	mentation searched (classification system followed by c 7 C12N9/04, C12N15/53, C12N5/1 C12Q1/32, C12M1/40, G01N33/6	0, C12N1/15, 6		
	searched other than minimum documentation to the ext		•	•
SwissP	base consulted during the international search (name of rot/PIR/GeneSeq, Genbank/EMBL/	data base and, where pra DDBJ/GeneSeq	cticable, search t	erms used)
C. DOCUME	NTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where a		t passages	Relevant to claim No.
Х	JP 2001-346587 A (Koji HAYA) 18 December, 2001 (18.12.01) Full text (Family: none)	IDE),		1-11
·P,X	EP 1367120 A2 (Toyo Boseki F 03 December, 2003 (03.12.03) Full text & US 2003/0232418 A1	Kabushiki Kaisha), 1-11		
P,X	JP 2004-173538 A (Amano Enzy 24 June, 2004 (24.06.04), Full text (Family: none)	me Inc.),		1-11
				·
Further do	cuments are listed in the continuation of Box C.	See patent famil	y annex.	
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination		
"P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search		"&" document member of the same patent family		
18 October, 2004 (18.10.04)		Date of mailing of the international search report 02 November, 2004 (02.11.04)		
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer		
Facsimile No. Corm PCT/ISA/210	0 (second sheet) (January 2004)	Telephone No.		

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/012508

	101/012004/012308
Box No	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This inte	rnational search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
^	Claims Nos.:
	because they relate to subject matter not required to be searched by this Authority, namely:
	\cdot
2.	Claims Nos.:
	because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
	extent that no incaming on international search can be carried out, specifically:
3.	Claims Nos.:
	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
_	
Box No.	III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Inte	mational Searching Authority found multiple inventions in this international application, as follows:
	(See extra sheet.)
1. 🔀	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable
	claims.
2. 🔲	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of
	any additional fee.
3. 🔲	As only some of the required additional search fees were timely paid by the applicant, this international search report covers
	only those claims for which fees were paid, specifically claims Nos.:
	·
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is
•	restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark	on Protest The additional count for any state of the stat
AND MILES	The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.
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INTERNATIONAL SEARCH REPORT

International application No. PCT/JP2004/012508

Continuation of Box No.III of continuation of first sheet(2)

The matter common to claims 1, 2 and 5 to 11 and claims 3 and 4 resides in a mutated pyrroloquinoline quinone-dependent glucose dehydrogenase.

As the results of the search, however, it is clarified that this mutated pyrroloquinoline quinone-dependent glucose dehydrogenase is not novel because of having been reported in document JP 11-243949 A (Toyobo Co., Ltd.) 14 September, 1999 (14.09.99).

As a result, the mutated pyrroloquinoline quinone-dependent glucose dehydrogenase falls within the category of prior art and, therefore, this common matter is not a special technical feature in the meaning with the second sentence of PCT Rule 13.2.

Accordingly, there is no matter common to all claims. Since there is no other common matter seemingly being a special technical feature in the meaning with the second sentence of PCT Rule 13.2, no technical relevancy in the meaning within PCT Rule 13 can be found out between these invention groups differing from each other.

Such being the case, it is obvious that claims 1 to 11 do not comply with the requirement of unity of invention.